

What is claimed is:

1. A compound 8 to 50 nucleobases in length targeted to a nucleic acid molecule encoding PCTAIRE protein kinase 1, wherein said compound specifically hybridizes with said nucleic acid molecule encoding PCTAIRE protein kinase 1 and inhibits the expression of PCTAIRE protein kinase 1.

2. The compound of claim 1 which is an antisense oligonucleotide.

3. The compound of claim 2 wherein the antisense oligonucleotide has a sequence comprising SEQ ID NO: 11, 13, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63, 64, 65, 66, 67, 68, 69, 70, 71, 72, 73, 74, 75, 76, 77, 78, 79, 80, 81, 82, 83, 84, 85, 86 or 87.

4. The compound of claim 2 wherein the antisense oligonucleotide comprises at least one modified internucleoside linkage.

5. The compound of claim 4 wherein the modified internucleoside linkage is a phosphorothioate linkage.

6. The compound of claim 2 wherein the antisense oligonucleotide comprises at least one modified sugar moiety.

7. The compound of claim 6 wherein the modified sugar moiety is a 2'-O-methoxyethyl sugar moiety.

8. The compound of claim 2 wherein the antisense oligonucleotide comprises at least one modified nucleobase.

9. The compound of claim 8 wherein the modified nucleobase is a 5-methylcytosine.

10. The compound of claim 2 wherein the antisense oligonucleotide is a chimeric oligonucleotide.

11. A compound 8 to 50 nucleobases in length which specifically hybridizes with at least an 8-nucleobase portion of an active site on a nucleic acid molecule encoding PCTAIRE protein kinase 1.

12. A composition comprising the compound of claim 1 and a pharmaceutically acceptable carrier or diluent.

13. The composition of claim 12 further comprising a colloidal dispersion system.

14. The composition of claim 12 wherein the compound is an antisense oligonucleotide.

15. A method of inhibiting the expression of PCTAIRE protein kinase 1 in cells or tissues comprising contacting said cells or tissues with the compound of claim 1 so that expression of PCTAIRE protein kinase 1 is inhibited.

16. A method of treating an animal having a disease or condition associated with PCTAIRE protein kinase 1 comprising administering to said animal a therapeutically or prophylactically effective amount of the compound of claim 1 so that expression of PCTAIRE protein kinase 1 is inhibited.

17. The method of claim 16 wherein the disease or condition is a hyperproliferative disease.

18. The method of claim 16 wherein the disease or condition is a neurological disease.

19. The compound of claim 1 targeted to a nucleic acid molecule encoding PCTAIRE protein kinase 1, wherein said compound specifically hybridizes with and differentially inhibits the expression of one of the variants of PCTAIRE protein kinase 1 relative to the remaining variants of PCTAIRE protein kinase 1.

20. The compound of claim 19 targeted to a nucleic acid molecule encoding PCTAIRE protein kinase 1, wherein said compound hybridizes with and specifically inhibits the expression of a variant of PCTAIRE protein kinase 1, wherein said variant is selected from the group consisting of PCTAIRE 1 and PCTAIRE-1B.